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Office Memorandum . UNITED STATES GOVERNMENT

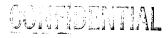
TO :	Chief, Communications Engineering Division SPM 6-647 18 December 1956	-		
FROM:	Chief, Supplemental Programs Division, OC			
SUBJECT:	Low Frequency Antenna System for the Marine Video Receiver	25X		
	1. You are aware that the present low frequency configuration of the Marine Video receiving system is entirely too large. Its present form is somewhat impractical for the intended application. To correct this, your Division has been reviewing antennas presently available in the range of 50 - 400 megacycles, the determinant range for the present antenna size.			
	has submitted a proposal for 30 inch spiral antennas which appear to have suitable characteristics. It is requested that you undertake to obtain four of the antennas for evaluation as replacement antennas for the present cross dipoles supplied by the	25X1 25X		
	3. Allocation number 7-7912-50-600 may be used for this charge.	25X		
	Attachments 1 - dated 5 Nov 56	25X		
	Distribution Orig & 1 w/atts - Addressee	23 X		



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		November 5, 1956 Page Two	25X1
		g additional characteristics:	
	vity Diameter	30 ^{rr}	
	vity Depth	12"	
	put Connection tenna Weight	Type "y"	
VS	WR (150 to 400 ma)	37 lbe.	
γੌਤ	WR (150 to 400 mg) WR (50 to 150 mg)	Less than 6-1	
		e to utilize a spiral antenna without	
300° coverage for	antermas with caviti		
A "bell park" est: 39 \$7,000.00. We you so desire.	imate of the cost of would be very happy	four prototype 30-inch spiral antennas to furnish a firm quotation to you if	
if we can be of ag	y further service to	you at this time, please call upon us.	
	Ver	ry truly yours,	
			25X1
			20/(1
		•	
			25 X 1



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		25 X ′
H-2061-151-GHT-56		25X ²
	30 November 1956	
		25X
Subject: Antenna System for ELI Dear Frank:	NT Maritime Receiver	
Since you have indicated that the lower bands would be desirable several antenna manufacturers atte	empting to determine what could	
be accomplished in this direction. The most promising reply received to date is from the		
reply is enclosed.	res quoted by, a spiral lently at 50 mcs would be 75" nna would be approximately 53.5	25X ⁻
assembly presently used for band l that this one antenna assembly wou	It is to be noted, however, ald serve both bands 1 and 2.	
sidered, it will be necessary to determine the patterns, polarize would be obtained at the lower frequirements demand an antenna apparam to determine suitability shows	zations, and sensitivities which equencies. If installation space proaching this size, a test pro- uld be initiated as soon as possi- etaken, should be extended to de-	25X
If you desire any further acbring it to the attention of Mr.	etion by us on this matter, please	25X′
•	Very truly yours,	
		25 X 1
	Engineering Department	

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GHT:m	cc			
cc:				

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25X1